

Work Order ID 151173

Monday, September 12, 2016 3:31:31 PM

151173

Page 1

Item ID: 601.3005 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Camloc Retainer - 2600-LW
 Start Date: 9/13/2016 Start Qty: 6.00 ***6*** Cust Item ID:
 Required Date: 9/13/2016 Req'd Qty: 6.00 ***6*** Customer:
 Reference: Re-work

Approvals: Process Plan: em Date: 16/09/12 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
100		0.00							
100									
Packaging	Memo	0.00							
Packaging	PULL FROM STOCK: 2600-LW B <u>134370</u> RE-IDENTIFY AS 601.3005								
110	QC4- 100% Inspect kits for completeness	0.00							
110									
QC	Memo	0.00							
Quality Control									
120	Identify as per dwg & Stock Location: <u>cc k088</u>	0.00							
120									
Packaging	Memo	0.00							
Packaging									

6 DAS
8
9-89

SEP 27 2016

6 SmB
16/9/07

6 DAS
8
9-89

SEP 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐				
Misidentified ☐	Past Due ☐	OTHER : _____			

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130	QC21 - Final Inspection - Work Order Release	0.00							
130									
QC	Memo	0.00							
Quality Control									

16/9/27 *[Signature]*
8m 16/09/27

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																	
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Picklist Print

Monday, September 12, 2016 3:31:30 PM

Page 1
T

Work Order ID: 151173

151173

Parent Item: 601.3005

601 3005

Parent Item Name: Camloc Retainer - 2600-LW

Start Date: 9/13/2016

Required Date: 9/13/2016

Start Qty: 6.00

Required Qty: 6.00

Comments:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

2600-LW

Purchased

No

Each

174.0000

6

2600-1 W

DAS
6
9-89

Washer, Camlock Retaining

Location

Loc Qty

Loc Code

ST580

174

m134370

49

m135058

125

6

SEP 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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APICAL INDUSTRIES, INC.
dba DART AEROSPACE

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

ENGINEERING CHANGE NOTICE NO.

05465

SHEET 1 OF 1

DWG NO. 647.7300

REV: B

PREPARED
BY

J. BECKER

DATE: 07/07/16

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: EC135 CABLE CUTTES KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

NEXT ORDER

REASON: ADDED NOTE 10.

ECR:

N/A

ACTION ITEM:

1.

SHEET 1, NOTE 10 IS:

NOTES: UNLESS OTHERWISE SPECIFIED

1 AFTER INSTALLATION, APPLY F/N 90 A/R TO
FILL GAPS AND FILLET EDGES.

2 APPLY F/N 91 TO FAYING SURFACES.

3 DELETED.

4 MATCH DRILL HOLES THROUGH F/N 26 or
F/N 98 AND FUSELAGE.

5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.

6 AT CUSTOMERS OPTION, INSTALL F/N 96 BY
MATCH DRILLING ONTO F/N 1 FOR KIT P/N
647.7301 or F/N 99 FOR KIT P/N 647.7304.

7 647.7301 INSTALLATION FOR EC135.

8 647.7304 INSTALLATION FOR EC135 T2/P2.

9 EXCEPT WHERE NOTED, INSTALLATION FOR
647.7304 SAME AS 647.7301.

10 CUT LENGTH: 16 INCHES.

IS

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENTS
WITHOUT NOTICE
WORK ORDER
NO. 151173

Em 16/09/12

36	R	601.3011	1	1	1	1	1	1	P-SEAL		10	
E/N	TC	PART NUMBER	7306	7305	7304	7303	7302	7301	DESCRIPTION	MATERIAL	SPECIFICATION	
			QTY									
DOCUMENTS EFFECTED:										CHANGE CATEGORY		DER REVIEW REQUIRED
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM										☐ MAJOR ☒ MINOR		☐ YES ☒ NO

 EXCEPT WHERE NOTED, INSTALLATION FOR 647.7304 SAME AS 647.7301.

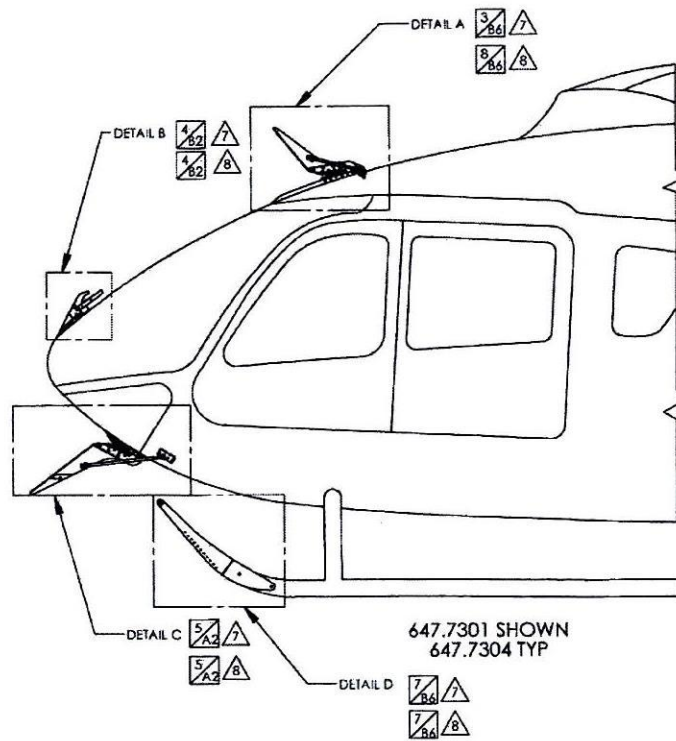
						REV'S			DATE	APPROVED
						REV.	DESCRIPTION			
						HVC	LAST PROTOTYPE REVIEW PER			HVC
						HVC	METAL RELEASE		01/13/89	P. BRAVO
						A	INCORPORATED LENS OPTIC DESIGN, REDUCE BOML, 03/04		02/18/71	P. BRAVO
						B	INCORPORATE ICH 05/05		03/07/74	P. BRAVO

QTY	7306	7305	7304	7303	7302	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC
								601.3120	EYE BOLT	AN44-12A	
								601.3121	EYE BOLT	AN44-5A	
1	1	1	1	1	1	1		37 601.3007	GROMMET	MS21266-2N	
1	1	1	1	1	1	1		36 601.3011	P-SEAL		
								35 647.3201	GROUNDING CABLE ASSY		
					2	2	4	34 647.2511	NUT		
							4	33 647.2510	SLEEVE		
	13	13			13	13		32 647.1812	SHIM		
	2	2			2	2	31	647.1811	SPACER		
	1	1			1	1	30	647.1602	DOUBLER ASSY		
	1	1			1	1	29	647.1914	BRACKET		
	1	1			1	1	28	647.7822	EYE BOLT FITTING RH		
	1	1			1	1	27	647.7821	EYE BOLT FITTING LH		
					1	1	26	647.7818	MOUNTING CHANNEL		
					1	1	25	647.7820	CROSS BRACKET AFT		
	1	1			1	1	24	647.7819	CROSS BRACKET FWD		
	1	1			1	1	23	647.7918	BRACKET		
	1	1			1	1	22	647.7917	BRACKET		
	2	2			2	2	21	647.7916	BRACKET		
	1	1			1	1	20	647.7915	BRACKET		
	1	1			1	1	19	647.7914	BRACKET		
	2	2			2	2	18	647.7913	DOUBLER		
	4	4			4	4	17	647.7912	CLIP		
	2	2			2	2	16	647.7911	BRACKET		
	2	2			2	2	15	647.7910	ANGLE BRACKET		
4	4	4			4	4	14	647.0112	STRUT BRACKET		
	1	1			1	1	13	647.1810	NOSE DOOR DOUBLER		
	1	1			1	1	12	647.1818	NOSE DOOR SPACER		
2		2	2			2	11	647.7701	STRUT ASSY		
2		2	2			2	10	647.7702	STRUT ASSY		
	1	1			1	1	9	647.1815	GUSSET, RH		
	1	1			1	1	8	647.1814	GUSSET, LH		
	1	1			1	1	7	647.1915	SUPPORT ANGLE		
	1	1			1	1	6	647.1913	TEE		
	1	1			1	1	5	647.1610	WIPER DEFLECTOR, FWD		
	1	1			1	1	4	647.1601	WIPER DEFLECTOR ASSY, AFT		
			2			2	3	647.1701	SKID DEFLECTOR ASSY		
1		1	1			1	2	647.7501	LOWER CUTTER ASSY		
X			1			1	1	647.7401	UPPER CUTTER ASSY		
	X							647.7306	T2/P2 REMOVABLE PROVISIONS KIT		
		X						647.7305	T2/P2 FXED PROVISIONS KIT		
			X					647.7304	EC135 T2/P2 CABLE CUTTERS KIT		
				X				647.7303	REMOVABLE PROVISIONS KIT		
					X			647.7302	FIXED PROVISIONS KIT		
						X		647.7301	EC135 CABLE CUTTERS KIT		
7306	7305	7304	7303	7302	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC	

QTY	7306
-----	------

05/10/5

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2	2				110	601.3902	EYE BOLT		
	2	2			109	601.2910	SCREW	MS27039-1-18	
4		4			108	601.3963	BOLT	936354-212	
8		8			107	601.3654	BOLT	LN9037-08018	
8		8			106	601.3655	LOCK WASHER	LN9025-0820K	
2		2			105	647.1702	SKID DEFLECTOR ASSY		
	8	8		8	104	601.3214	CHERRY RIVET	CR3325-5-8	
	24	24		24	103	601.3213	CHERRY RIVET	CR3325-4-8	
	4	4		4	102	601.3212	CHERRY RIVET	CR3325-4-8	
5		5			101	601.1541	LOCKNUT	MS27042-08	
5		5			100	601.3962	SCREW	MS27039-0827	
1		1			99	647.1404	CUTTER ASSY (UPPER)		
	1	1			98	647.2114	UPPER U CHANNEL		
	1	1			97	647.7823	CROSS BRACKET AFT		
1		1	1	1	96	647.5701	GPS MOUNT KIT		
7306	7305	7304	7303	7302	7301	QTY	PART #	DESCRIPTION	MATL SPEC

ORIGINAL DATE
11/24/08
DRAWN BY
A. DULAN
CHECKED BY
D. BAKER
DRAWING APPROVAL
P. BRAY
BUILDING
CONTRACT NO.

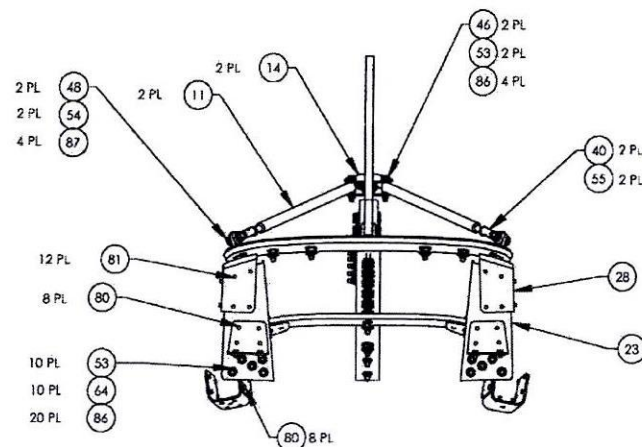
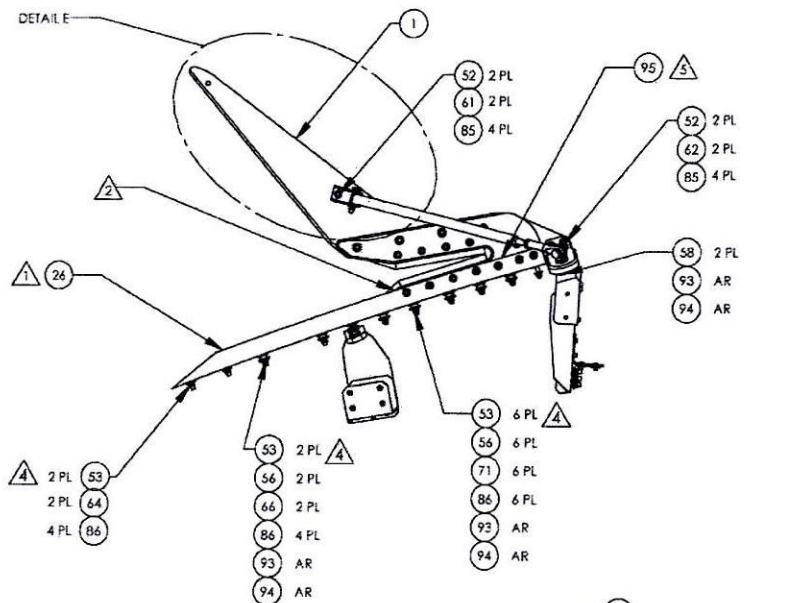
DART
AEROSPACE
3030 ENTERPRISE CT.,
SUITE A
VISTA, CA 92081
(760) 724-5300
EC135 CABLE CUTTERS KIT
REV. B
SCALE: NONE
SHEET 2 OF 6

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.1°

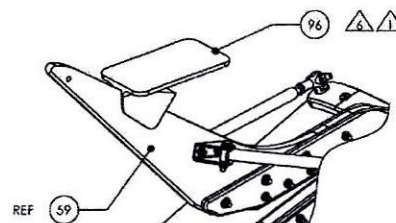
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8

DETAIL E



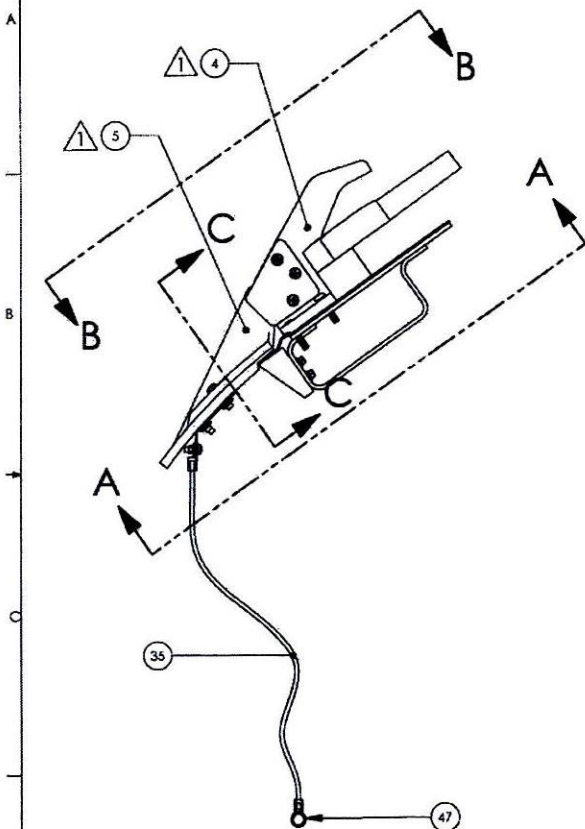
DETAIL A



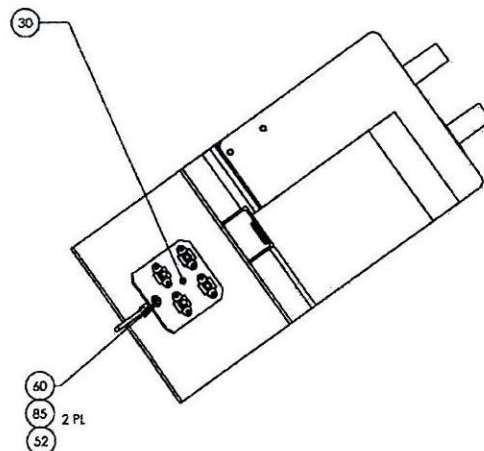
DETAIL E
TYPICAL GPS MOUNT KIT INSTALLATION

ORIGINAL DATE 11/04/09	3030 ENTERPRISE CT., SUITE A
DRAWN BY A. GUAN	VISTA, CA 92081
CHECKED BY C. BARKER	(760)-724-5300
DESIGN APPROVAL P. BARKER	APICAL INDUSTRIES, INC. DBA DART AEROSPACE
CONTRACT NO.	EC135 CABLE CUTTERS KIT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS .001 2 PLACE DECIMALS .0005 ANGLES .5°	REV B
821 CAGE CODE 07ME6	DWG. NO. 647.7300
SCALE NONE	SHEET 3 OF 8

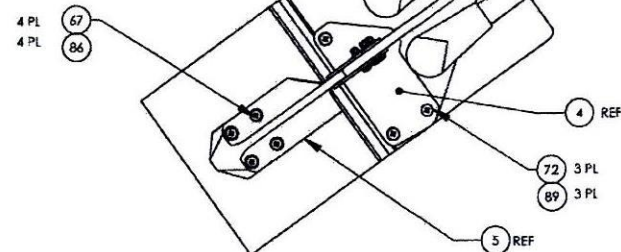
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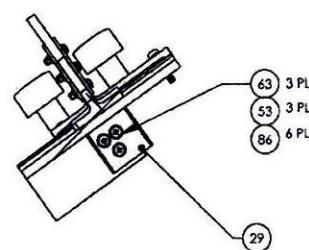
DETAIL B



SECTION A-A



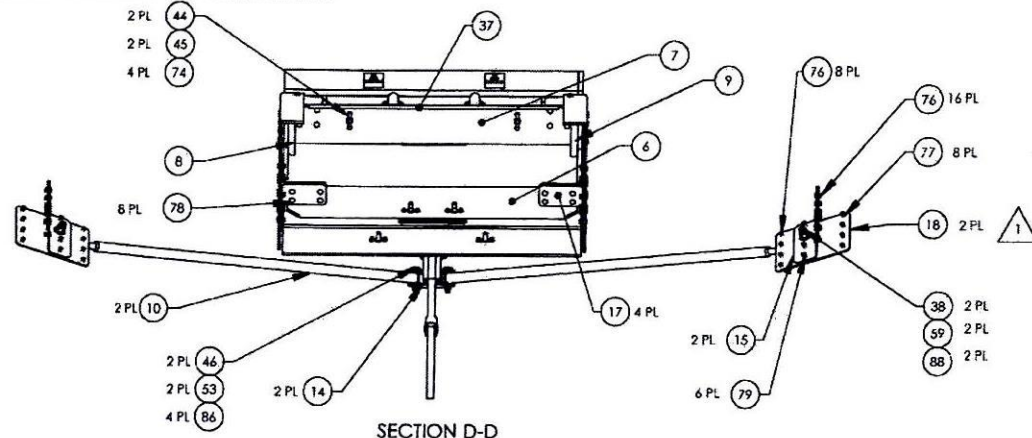
SECTION B-B



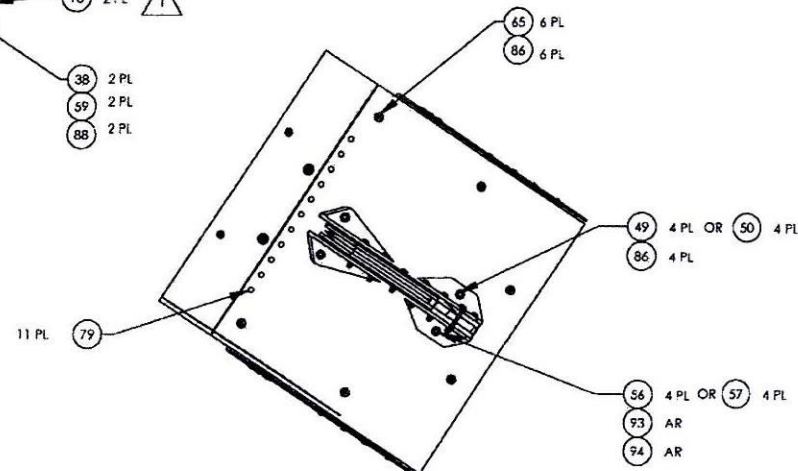
SECTION C-C

ORIGINAL DATE 11/24/08		DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY A. QUAM		CHECKED BY D. BARNER	
DRAWING APPROVAL A. QUAM		APICAL INDUSTRIES INC. DBA DART AEROSPACE	
CONTRACT NO.		EC135 CABLE CUTTERS KIT	
REV B	CAGE CODE 07M36	QWG NO. 647.7300	REV B
SCALE NONE		SHEET 4 OF 8	

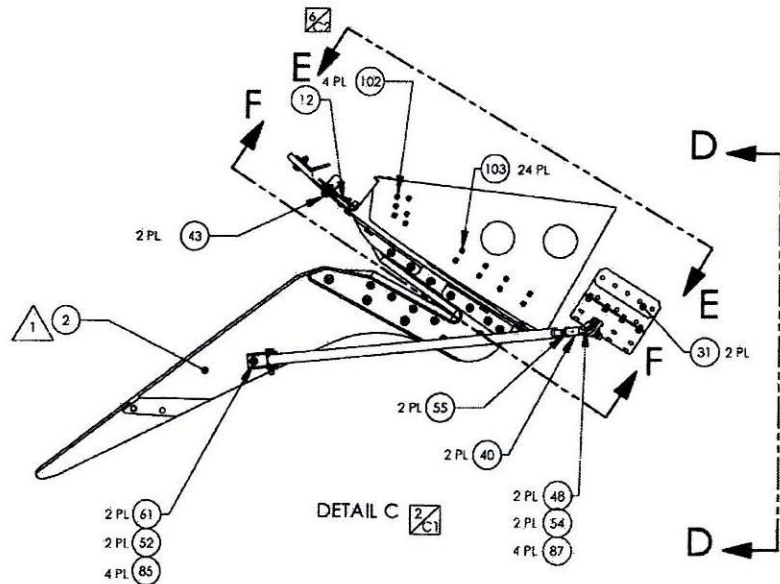
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DDA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DDA DART AEROSPACE IS PROHIBITED.



SECTION D-D



SECTION F-F



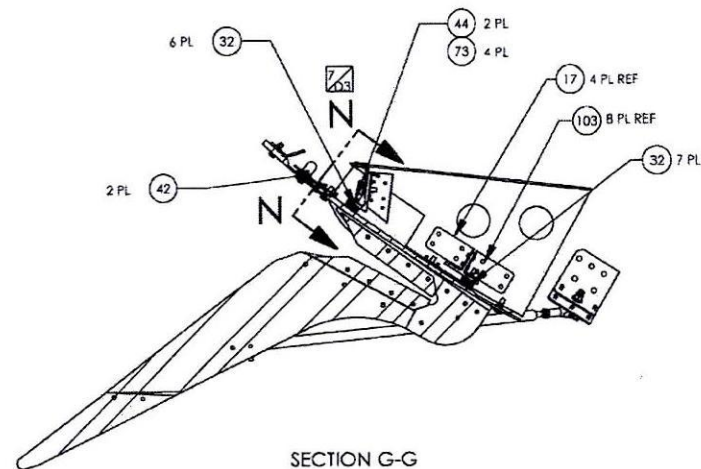
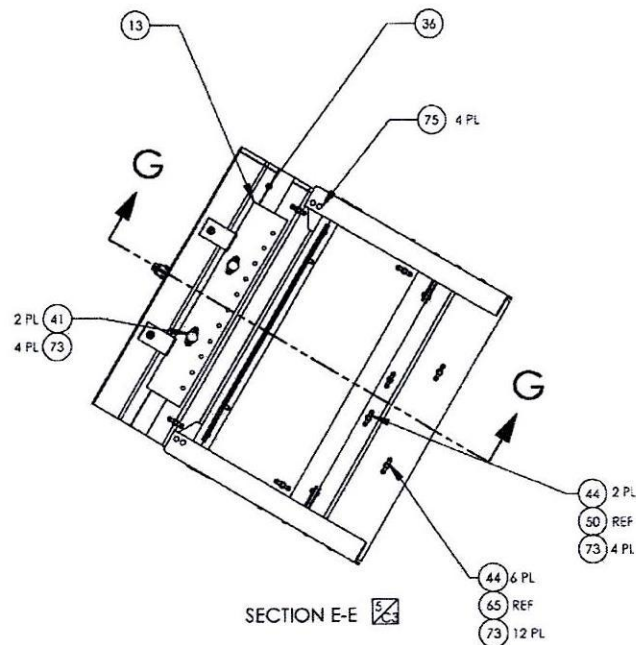
DETAIL C

ORIGINAL DATE 8-20-11	11/20/11
DRAWN BY A. GUAN	CHECKED D. BARKER
DRAWING APPROVAL P. MALLO	
DATE 8/11/11	
CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	
SEE B	CAGE CODE 077M26
DWG. NO. 647.7300	REV. B
SCALE NONE	SHEET 5 OF 8

DART 3030 ENTERPRISE CT., SUITE A
AEROSPACE VISTA, CA 92081
APICAL INDUSTRIES, INC. (760) 724-3300
DART AEROSPACE

EC135 CABLE CUTTERS KIT

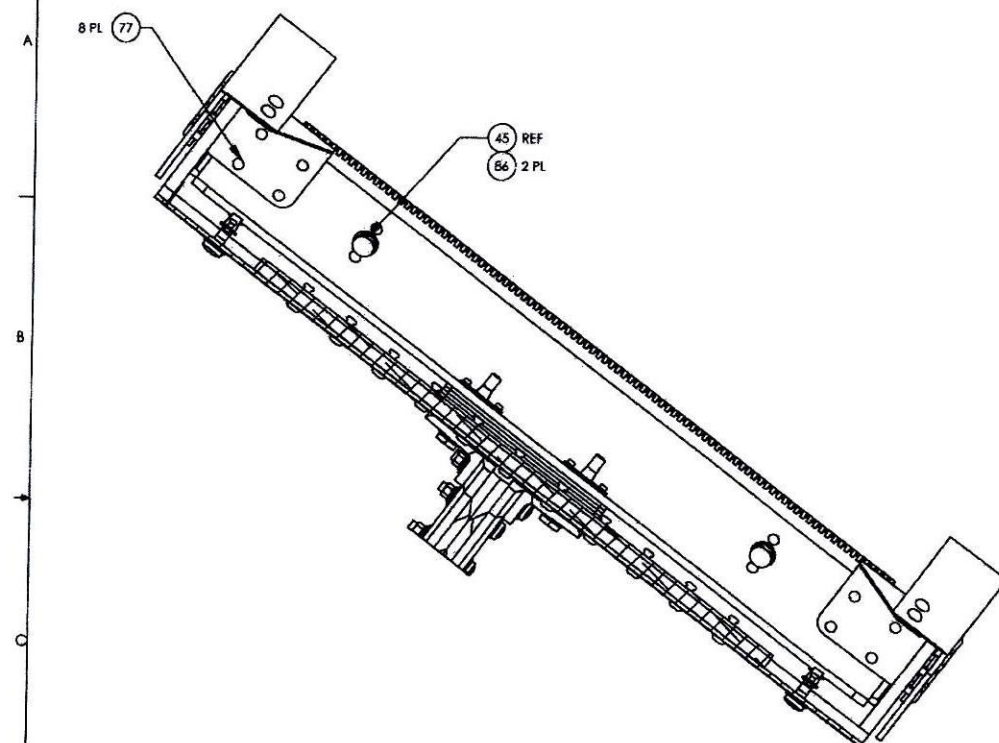
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ORIGINAL DATE 11/24/09		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY A. CHAN		DART AEROSPACE	
CHECKED BY D. BARKER		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
DRAWING APPROVAL		EC135 CABLE CUTTERS KIT	
CONTRACT NO.		SHEET 5 OF 8	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.01 2 PLACE DECIMALS ±.005 ANGLES ± .5°		SHEET CODE B	REV B
SCALE NONE		647.7300	

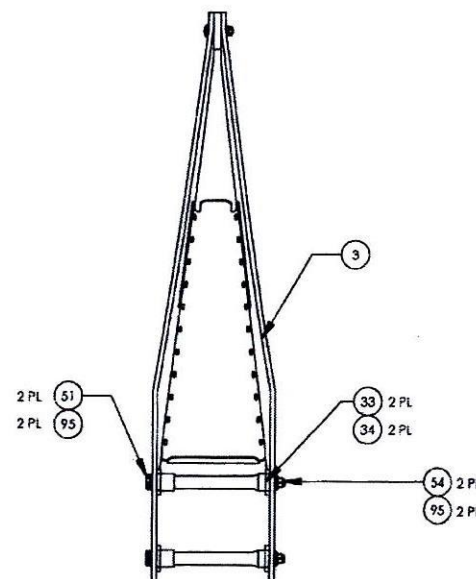
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SECTION N-N

INBOARD

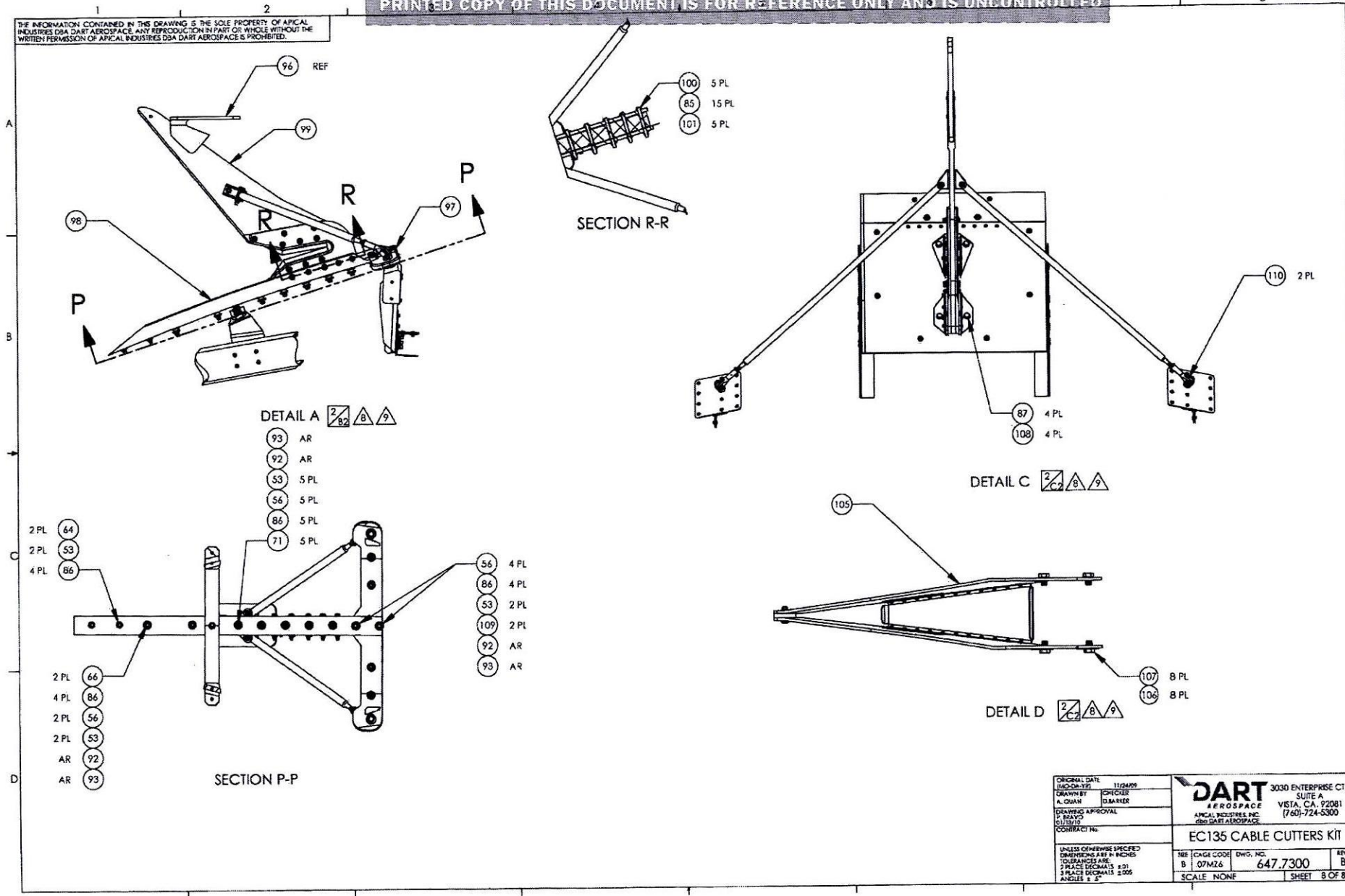


DETAIL D
TYP 2 PL

ORIGINAL DATE 11/24/05		DRAWN BY A. QUAN		CHECKED D. BARKER		APPROVED J. BRADY		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		MATERIAL CODE B 07M26		DWG. NO. 647.7300		REV. B		SCALE NONE	
DART AEROSPACE 3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760)-724-5300		EC135 CABLE CUTTERS KIT		SHEET 7 OF 8					

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ORIGINAL DATE 11/24/09		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY A. CHAH	CHECKED J. BARNER	DART AEROSPACE APICAL INDUSTRIES INC. DBA DART AEROSPACE	
DESIGNING APPROVAL P. BAYO		EC135 CABLE CUTTERS KIT	
CONTRACT NO.		REV. B	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07M26	DWG. NO. 647.7300
SCALE NONE		SHEET 8 OF 8	